

ALL BAR	DIMENSIONS	ARE	OUT	TO	OUT

BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN A										
				TYPE :	I UNIT	TYPE I	I UNIT	TYPE III UNIT		
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	
B1	2	4	STR	23'-3"	31	23'-3"	31	23'-3"	31	
S1	8	4	2	4′-5″	24	4'-5"	24	4′-5″	24	
S2	42	4	2	5′-4″	150	5′-4″	150	5′-4″	150	
S3	4	4	2	5′-5″	14	5′-5 <b>″</b>	14	5′-5″	14	
S4	4	4	2	5′-7″	15	5′-7″	15	5′-7″	15	
* S5	6	4	1	5′-9″	23	5'-9"	23			
	ORCING :				234 LBS.		234 LBS.		234 LBS.	
	Y COATE			STEEL	23 LBS.		23 LBS.			
5,000	5,000 P.S.I. CONCRETE 3.6 CU. YDS.						CU. YDS.	3.6	CU. YDS.	
1/2"Ø 1	1/2" Ø L.R. STRANDS No. 12 12 12									
	RTIL OF MATERIAL FOR ONE CORED SLAR SECTION SPAN R									

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BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN B									
	TYPE I UNIT					TYPE I	I UNIT	TYPE I	II UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B2	4	4	STR	26'-0"	69	26'-0"	69	26′-0"	69
S1	8	4	2	4′-5″	24	4′-5″	24	4′-5″	24
S2	94	4	2	5′-4″	335	5'-4"	335	5′-4″	335
S3	4	4	2	5′-5″	14	5′-5″	14	5′-5 <b>″</b>	14
S4	4	4	2	5′-7″	15	5′-7″	15	5′-7″	15
* S5	9	4	1	5′-9″	35	5′-9″	35		
REINFO	ORCING :	STEEL		4	57 LBS.	4	457 LBS.		457 LBS.
<b>₩</b> EP0X	* EPOXY COATED REINFORCING STEEL 35 LBS.						35 LBS.		
5,000	5,000 P.S.I. CONCRETE 7.3 CU. YDS.						7.3 CU. YDS.		CU. YDS.
1/2"Ø L	R. STRA	NDS	No.		24		24		24

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BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	2	4	STR	23′-3″	31	23'-3"	31	23′-3″	31
S1	8	4	2	4'-5"	24	4'-5"	24	4'-5"	24
S2	42	4	2	5′-4″	150	5′-4″	150	5′-4″	150
S3	4	4	2	5′-5″	14	5′-5″	14	5′-5″	14
S4	4	4	2	5′-7″	15	5′-7″	15	5′-7″	15
* S5	6	4	1	5′-9″	23	5′-9″	23		
				•					
REINF	ORCING S	STEEL		2	34 LBS.	,	234 LBS.		234 LBS.
* EPOXY COATED REINFORCING STEEL 23 LBS.							23 LBS.		***************************************
5,000	P.S.I. CC	NCRETE		3.6	CU. YDS.	3.6	CU. YDS.	3.6	CU. YDS.

GRADE 270 STRANDS						
	½″Ø L.R.					
AREA (SQUARE INCHES)	0.153					
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300					
APPLIED PRESTRESS (LBS.PER STRAND)	30,980					

ASSEMBLED BY : PEGGY A CHECKED BY : T. AVER	ADKINS DATE: RETTE DATE:	8-03 8-04
DRAWN BY: WJH 4/89 CHECKED BY: FCJ 5/89	REV. 10/17/00 REV. 7/10/01 REV. 5/7/03R	RWW/LES RWW/JTE

√2"Ø L.R. STRANDS

CORED SLABS REQUIRED							
		NUMBER	LENGTH	TOTAL LENGTH			
	TYPE I	2	23'-81/4"	47'-41/2"			
SPAN A	TYPE II	2	23'-8 <sup>1</sup> / <sub>4</sub> "	47'-4 <sup>1</sup> / <sub>2</sub> "			
	TYPE III	15	23'-81/4"	355′-3¾″			
	TYPE I	2	49′-103/8″	99′-8¾″			
SPAN B	TYPE II	2	49′-103/8″	99′-8¾″			
	TYPE III	15	49′-103/8″	747′-115⁄8″			
	TYPE I	2	23'-8 <sup>1</sup> / <sub>4</sub> "	47'-4 <sup>1</sup> / <sub>2</sub> "			
SPAN C	TYPE II	2	23'-8 <sup>1</sup> / <sub>4</sub> "	47'-4 <sup>1</sup> / <sub>2</sub> "			
	TYPE III	15	23'-81/4"	355′-3¾"			
TOTAL		57		1847′-65⁄8″			

BILL OF MATERIAL FOR SIDEWALK & END POSTS							
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT		
<b>∗</b> B3	24	4	STR	23′-3″	373		
<b>*</b> B4	24	4	STR	26′-2″	420		
				****			
<b>∗</b> E1	8	7	3	5′-1″	83		
<b>米</b> E2	8	7	3	4'-7"	75		
<b>∗</b> E3	8	7	3	4'-0"	65		
<b>∗</b> E4	8	7	3	3′-8″	60		
<u>₩ E5</u>	4	7	3	3′-5″	28		
				***************************************			
* F1	8	6	STR	3′-6″	42		
* F2	8	6	STR	3'-4"	40		
* F3	4	6	STR	3′-8″	22		
* F4	8	6	STR	3′-11″	47		
* F5	4	6	STR	4'-3"	26		
<b>★</b> G1	208	4	STR	5′-11″	822		
* EPOXY COATED REINFORCING STEEL 2103 LBS.							
CLASS S: EI	CU. YDS. CU. YDS.						
CLASS C		TE TOT	AL	49.2	CU. YDS.		

## NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE  $2\frac{1}{2}$ " Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE  $2\frac{1}{2}$ " Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO  $1\frac{1}{2}$ " ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE B LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL IN SIDEWALKS AND END POSTS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

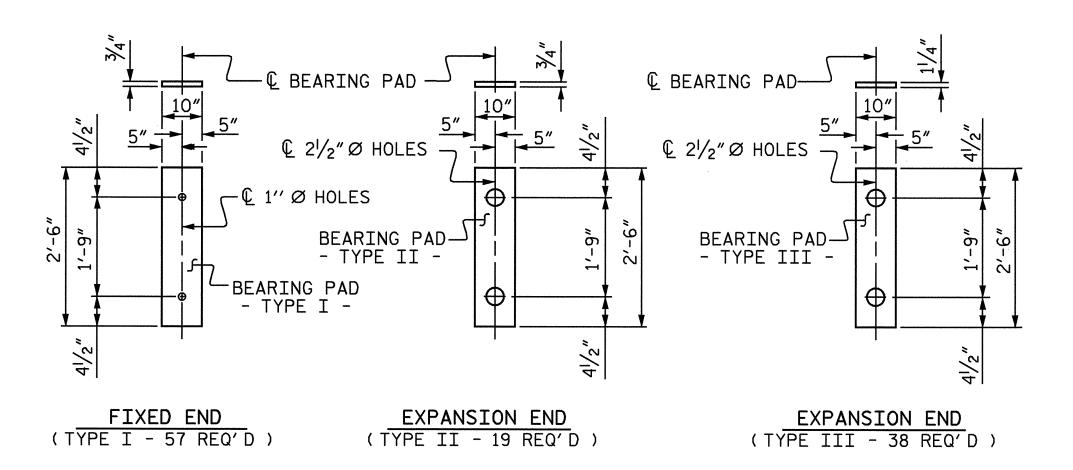
APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

DEAD LOAD DE	FLECTION A	ND CAMBER	
	SPAN A	SPAN B	SPAN C
	½″Ø L.R. STRAND	1/2″Ø L.R. STRAND	½″Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	Å <sup>3</sup> / <sub>8</sub> "	<u></u> 4 2 5/16"	Å 3/ <sub>8</sub> "
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	<b>♦</b> 1/16″	<b>♦</b> 1/4″	<b>†</b> 1∕16″
ETNAL CAMBER	1 5/ <sub>-</sub> "	A 21/"	1 5/-"

\*\* INCLUDES FUTURE WEARING SURFACE



ELASTOMERIC BEARING DETAILS

B-3685 PROJECT NO. \_ COUNTY STATION: 17+47.50 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SLAB UNIT

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		REV	/ISIONS			SHEET NO.
10.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
典			18			SHEETS

CTD NO DOCZ